AUG 19 1974

Docket No. 50-286

Mr. Harry Woodbury
Executive Vice President
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Dear Mr. Woodbury:

I am enclosing four of the five items we promised to make available to Con Ed and other parties at the Indian Point Briefing last week. The items are listed below along with comments regarding the nature and status of each item.

1. (a) Hand-outs and transparencies used at the Indian Point Briefing, July 30-31, 1974.
   (b) Revised set of equations for the young-of-the-year model including a glossary of terms.

2. Adult Model Computer Program - This is a final version of the interactive program. This program will appear in a forthcoming report on the adult striped bass model.

3. Young-of-the-Year Model Computer Program - This is a recent version of a program that is undergoing change. This is a preliminary version that has not been thoroughly checked for errors. It definitely will be changed before it is finalized. A report describing the final model will be available later.

4. Notes on Compensation - This is part of the current draft of the report on the adult model and is subject to change. These notes include the material Christensen presented last week.

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Mr. Harry Woodbury - 2 -

It is essential that all parties recognize that the above enclosed information is preliminary in nature and subject to change.

We will endeavor to provide some results from the young-of-the-year model as soon as possible.

Sincerely yours,

Original signed by
George W. Knighton

George W. Knighton, Chief
Environmental Projects Branch No. 1
Directorate of Licensing

Enclosures:
As stated

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AUG 13 1974

Docket Nos. 50-3
50-247
50-286

Mr. Harry Woodbury
Executive Vice President
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Dear Mr. Woodbury:

In order that we may continue our environmental review of your application for operating the Indian Point Unit No. 3, additional information on those matters set forth in Enclosure I is needed. These were items discussed with your staff at our meeting of August 1 and 2, 1974 at the Verplanck laboratory facilities.

In order to maintain our review schedule, we will need an adequate response by August 28, 1974. Please inform us within seven days after receipt of this letter of the date you will be able to provide the required information. Your formal reply should consist of three signed originals and seven additional copies. Please send one copy directly to Dr. Richard Rush at Oak Ridge National Laboratory.

If you desire to discuss the information requested, please contact Dr. Mary Jane Oestmann, AEC Environmental Project Manager, (301 443-6951).

Sincerely,
Original signed by
George W. Knighton

George W. Knighton, Chief
Environmental Projects Branch No. 1
Directorate of Licensing

Enclosure:
Request for Additional
Environmental Information

cc: See page 2

OFFICE ➔	L:EP-1	L:EP-1				
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Enclosure I

Request for Additional Environmental Information
Indian Point Units Nos. 1, 2 and 3
Docket Nos. 50-3, and 50-247, 50-286

1. Provide the following separately from Texas Instruments and from Quirk Lawler, and Matusky for each of the 12 Texas Instruments longitudinal river segments, for each of striped bass eggs, yok-sac larvae. larvae, and juveniles, and for each week from April 30, 1973, through November 26, 1973:

   (a) volume and mean density for the total segment;
   (b) volumes and mean densities for the shoal, bottom, and mid-channel compartments within each river segment;
   (c) the formula for obtaining (a) from (b).

2. Provide 1973 Indian Point data and analysis (including assumptions) from New York University relevant to estimating the ratio:

   intake conc./cross-sectional average conc.

   Include day and night estimates (and a measure of variability) of this ratio at Indian Point by New York University and by Quirk, Lawler, and Mutusky for each of striped bass eggs, yolk-sac larvae, larvae, and juveniles.

3. Provide 1973 data and analysis (including assumptions) from Quirk, Lawler, and Matusky relevant to estimating the ratio:

   intake conc./cross-sectional average conc.

   Include day and night estimates of this ratio at the Danskammer, Roseton, Lovett, and Bowline plants by Quirk, Lawler, and Matusky for each of striped bass eggs, yolk-sac larvae, larvae, and juveniles.

4. Provide a draft of that part of Vol. IV, Fisheries Survey of the Hudson River, March-December 1973, by Texas Instruments dealing with estimates of standing crops and mortality rates of striped bass eggs, yolk-sac larvae, larvae, and Juveniles I, II, and III.

5. Provide the Texas Instruments data (location, date, size, sex, etc.) on the 149 adult striped bass tagged in the Hudson River during 1973 and on all the fish subsequently recaptured, including those recaptured in 1974.

6. Provide a draft of the Fish Impingement Study Report by Texas Instruments which describes the results of fish impingement studies conducted during 1972-1973 at Indian Point.

7. Provide 1973 data on the length-frequency distribution of striped bass yolk-sac larvae and larvae found in the discharge canal on a weekly and seasonal basis.

8. Provide a copy of Tatham, T. R., 1970, "Swimming Speed of the White

Perch, Morone americana, Striped Bass, Morone saxatilis, and other Esturine Fishes," Con Edison, December 5, 1970.

9. Provide a draft of Vol. IV Fisheries Survey of the Hudson River, March-December 1973, by Texas Instruments which was listed in a letter dated March 1, 1974 from W. Cahill, Consolidated Edison Company, to Mr. George W. Knighton, Atomic Energy Commission. Ten copies of the final report should be sent when available.

10. Provide data and analysis (including assumptions) from Quirk, Lawler, and Matusky relevant to estimating the ratio: number of fish impinged per unit time/number of fish available to be impinged per unit time in a given cross section. Include day and night estimates (and a measure of variability) of this ratio at the Danskammer, Roseton, Lovett, and Bowline plants for striped bass, white perch, and tomcod.

11. Provide data and an analysis on the proportion of viable and nonviable striped bass eggs as a function of:

    (a) depth, i.e., epibenthic sled vs. Tucker trawl;
    (b) river segment;
    (c) week from April 30, 1973, through the end of the spawning season.

    Discuss the extent to which nonviability may be influenced by damage in the nets.

12. Provide 1973 data and analysis from Texas Instruments on the length-frequency distribution of striped bass yolk-sac larvae, larvae, and Juvenile I as a function of:

    (a) depth, i.e., epibenthic sled vs. Tucker trawl;
    (b) river segment;
    (c) week from April 30, 1973, through November 26, 1973